

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number  
**WO 03/106457 A1**(51) International Patent Classification<sup>7</sup>: **C07D 471/10**,  
A01N 43/90, C07D 491/10, 211/76, 211/70 // (C07D  
471/10, 221:00, 209:00) (C07D 491/10, 317:00, 221:00)

(21) International Application Number: PCT/GB03/02424

(22) International Filing Date: 4 June 2003 (04.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0213715.6 14 June 2002 (14.06.2002) GB(71) Applicants (for all designated States except US): **SYNGENTA LIMITED** [GB/GB]; European Regional Centre, Priestley Road, Surrey Research Park, Guildford, Surrey GU2 7YH (GB). **SYNGENTA PARTICIPATIONS AG** [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HUGHES, David, John** [GB/GB]; Syngenta Limited, Jealott's Hill International Research Centre, Bracknell, Berkshire RG42 6EY (GB). **WORTHINGTON, Paul, Anthony** [GB/GB]; Syngenta Limited, Jealott's Hill International Research Centre, Bracknell, Berkshire RG42 6EY (GB). **RUSSELL, Charles, Adam** [GB/GB]; Syngenta Limited, Jealott's Hill International Research Centre, Bracknell, Berkshire RG42 6EY (GB). **CLARKE, Eric, Daniel** [GB/GB]; Syngenta Limited, Jealott's Hill International Research Centre, Bracknell, Berkshire RG42 6EY (GB). **PEACE, James, Edward** [GB/GB]; Syngenta Limited, Jealott's Hill International Research Centre, Bracknell, Berkshire RG42 6EY (GB). **ASHTON, Mark, Richard** [GB/GB]; Evotec OAI, 111 Milton Park, Abingdon, Oxon OX14 4SD (GB). **COULTER, Thomas, Stephen** [GB/GB];Evotec OAI, 111 Milton Park, Abingdon, Oxon OX14 4SD (GB). **ROBERTS, Richard, Spurring** [GB/ES]; Almirall Prodesfarm, Research Centre, Cardener, 68-74, E-08024 Barcelona (ES). **MOLLEYRES, Louis-Pierre** [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH). **CEDERBAUM, Fredrik** [SE/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH). **CASSAYRE, Jerome** [FR/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH). **MAIENFISCH, Peter** [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).(74) Agents: **WATERMAN, John, Richard** et al.; Intellectual Property Department, Syngenta Limited, PO Box 3538, Jealott's Hill Research Centre, Bracknell, Berkshire RG42 6YA (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

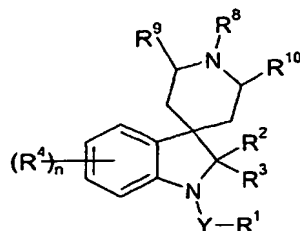
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SPIROINDOLINEPIPERIDINE DERIVATIVES



(I)

(57) Abstract: Insecticidal, acaricidal, nematocidal or molluscicidal compounds of formula (I) wherein Y is a single bond, C=O, C=S or C=(O)<sub>q</sub> where q is 0, 1 or 2; and R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> are as defined in the claims or salts or N-oxides thereof, processes for preparing them and compositions containing them.